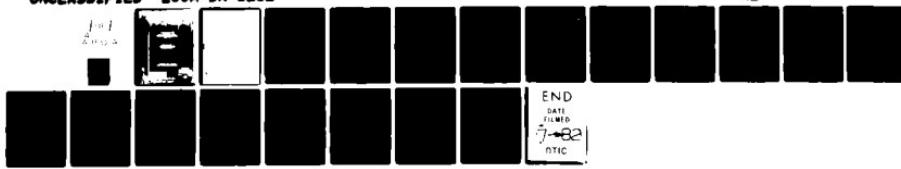
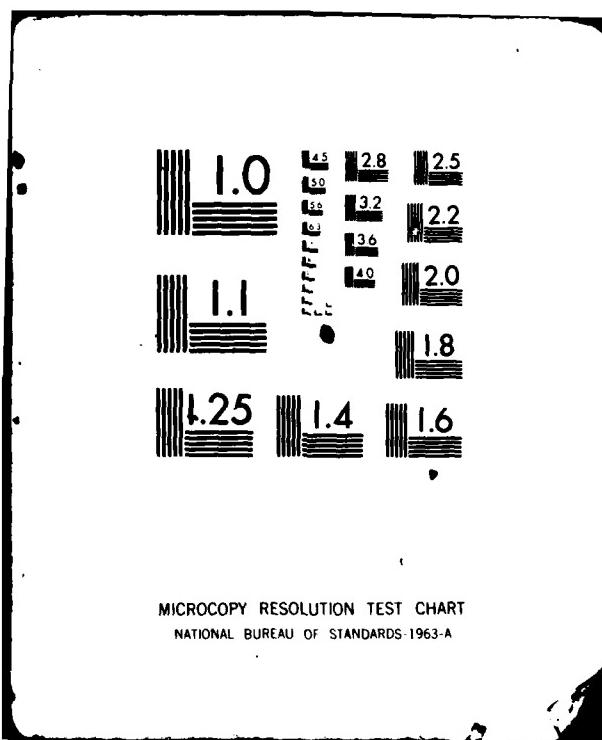


AD-A115 014 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N=ETC F/6 4/2
19315A MLRS MISSILE NUMBERS V28-008, V19-010 ROUND NUMBERS V246—ETC(U)
APR 82 D C KELLER
UNCLASSIFIED ECOM-DR-1232

NL

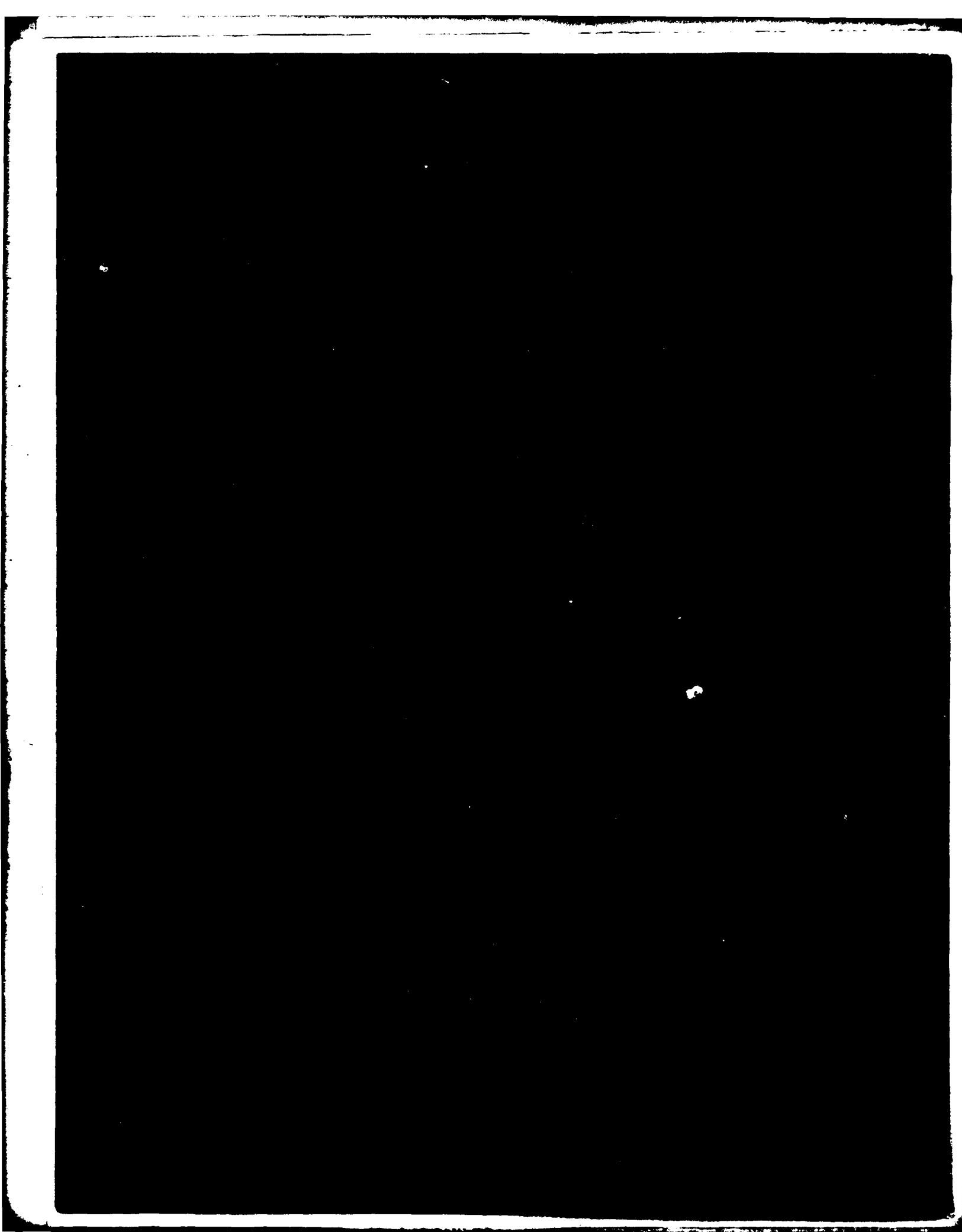


END
DATE FILMED
7-82
NTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A





UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1232	2. GOVT ACCESSION NO. AD-A115014	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19315A MLRS, Missile Numbers V28-008, V15-010 Round Numbers V246/AT2-15, V247/AT2-16		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) White Sands Meteorological Team		8. CONTRACT OR GRANT NUMBER(s) DA TASK 1F665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		12. REPORT DATE Apr 82
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		13. NUMBER OF PAGES 19
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Metereological data gathered for the launching of the 19315A MLRS, Missile Numbers V28-008, V15-010, Round Numbers V246/AT2-15, V247/AT2-16 presented in tabular form.		

CONTENTS	PAGE
INTRODUCTION -----	1
DISCUSSION -----	1
GENERAL AREA MAP -----	2
LAUNCH AREA DIAGRAM -----	3
 TABLES:	
1. Surface Observations taken at 1500 MST at LC-33 -----	4
2. Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, Taken at 1500 MST -----	5
3. Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, Taken at 1500 MST -----	5
4. Launch and Impact Pilot-Balloon Measured Wind Data -----	6
5. Aiming and T-Time Computer Met Messages -----	7
6. WSD Significant Level Data at 1200 MST -----	8
7. WSD Upper Air Data at 1200 MST -----	9
8. WSD Mandatory Levels at 1200 MST -----	10
9. WSD Significant Level Data at 1400 MST -----	11
10. WSD Upper Air Data at 1400 MST -----	12
11. WSD Mandatory Levels at 1400 MST -----	13
12. LC-37 Significant Level Data at 1500 MST -----	14
13. LC-37 Upper Air Data at 1500 MST -----	15
14. LC-37 Mandatory Levels at 1500 MST -----	16

INTRODUCTION

19315A MLRS, Missile Numbers V28-008 and V15-010, Round Numbers V246/AT2-15 and V247/AT2-16, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1500:01 and 1500:05 MST, 22 Apr 1982. The scheduled launch times were 1500 and 1500:04.5 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained for pilot-balloon observations at:

SITE AND ALTITUDE

WSD 2 Km
SMR 2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

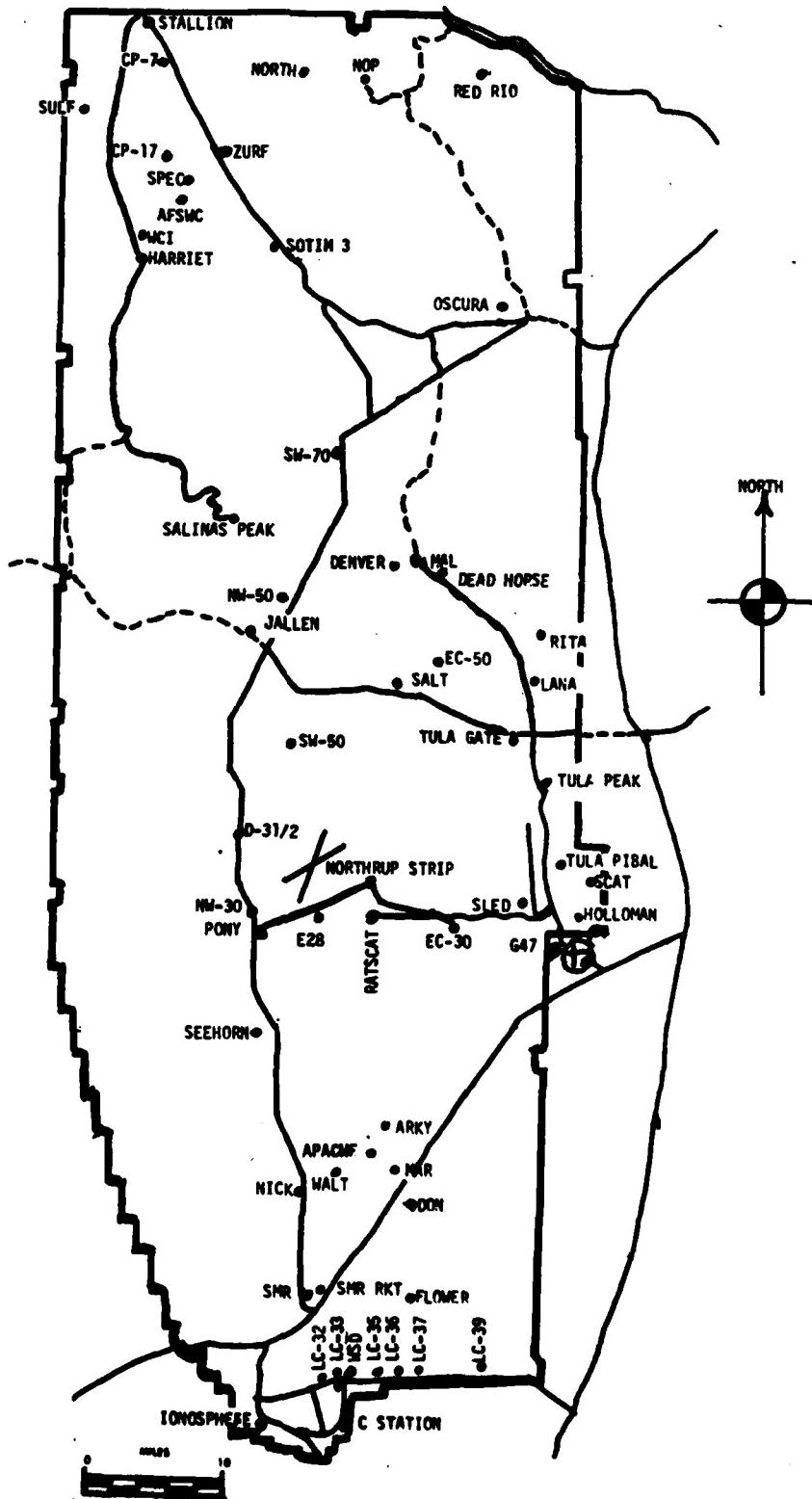
WSD 1200 MST
WSD 1400 MST
LC-37 1500 MST

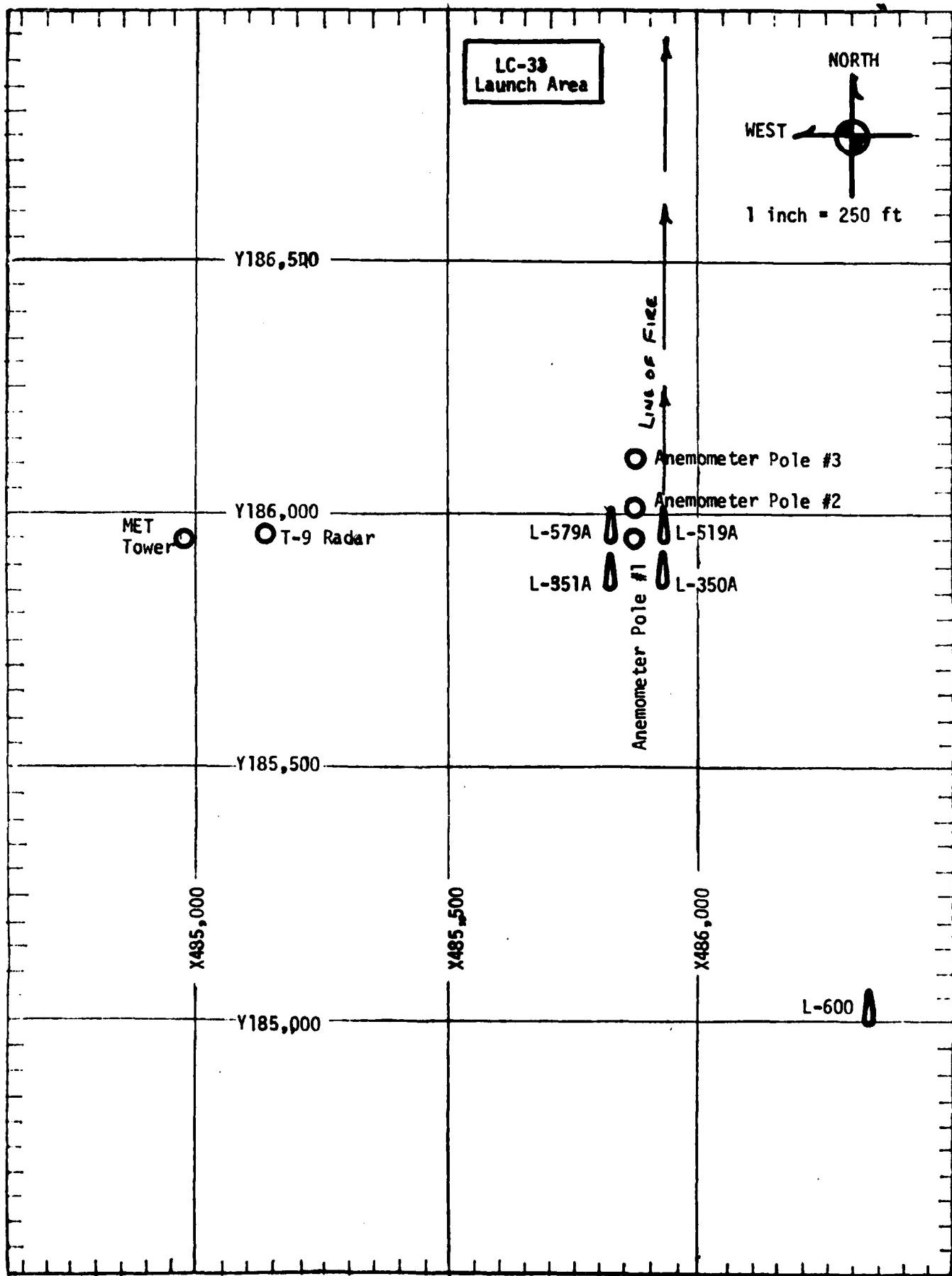


Accession For	
NTIS	GRA&I
DTIC TAB	<input checked="" type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/ _____	
Availability Codes	
Avail	and/or
Dist	Special

A

WSMR METEOROLOGICAL SITES





PROJECT SURFACE OBSERVATION

TABLE 1

DATE 22 Apr 82STATION: LC-33 E&AX= 484.982.65 Y= 185.957.73 H= 3995.00

TIME M S I	PRESSURE mb	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY g/m ³	DIRECTION deg Tn	WIND kts	CHARACTER kts	VISIBIL- ITY
1500	889.9	10.2	2.0	57	1089	160	12		50

OBSTRUCTIONS TO VISIBILITY	CLOUDS			REMARKS		
	1st LAYER AMT	TYPE	HGT	2nd LAYER AMT	TYPE	HGT
	9	SC	5,000	1	AS	10,000

PSYCHROMETRIC COMPUTATION

TIME:	1500	
DRY BULB TEMP.	10.2	
WET BULB TEMP.	6.1	
WET BULB DEPR.	4.1	
DEW POINT	2.0	
RELATIVE HUMID.	57	

Copy available to DDC does not
permit fully legible reproduction

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	Missing	12	T-30	141	10	T -30	138	14
T-20	Missing	12	T-20	141	10	T -20	137	13
T-10	Missing	11	T-10	136	10	T -10	126	12
T0.0	Missing	10	T0.0	137	10	T 0.0	132	12
T+10	Missing	10	T+10	115	10	T +10	138	11

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	162	09	T-30	164	13
T-20	158	12	T-20	153	13
T-10	151	13	T-10	152	14
T0.0	159	12	T0.0	148	12
T+10	159	12	T+10	145	13

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	151	13	T-30	121	16
T-20	132	12	T-20	115	14
T-10	137	11	T-10	116	13
T0.0	125	11	T0.0	116	11
T+10	133	12	T+10	115	12

TABLE 4

T-TIME PILOT-BALLOON MEASUREMENTS

DATE 22 April 1982

SITE: WSD
 TIME: 1500 MST
 WSTM COORDINATES:
 X= 488,580
 Y= 185,045
 H= 3,989

SITE: SMR
 TIME: 1500 MST
 WSTM COORDINATES:
 X= 472,441
 Y= 214,138
 H= 3,999

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	120	12	SURFACE	210	10
150	147	15	150	180	05
210	138	12	210	183	08
270	116	09	270	174	08
330	141	11	330	180	09
390	142	10	390	165	11
500	128	10	500	160	14
650	116	14	650	153	15
800	115	12	800	147	14
950	119	16	950	141	15
1150	131	19	1150	129	18
1350	128	15	1350	138	16
1550	128	12	1550	142	17
1750	135	12	1750	140	16
2000	173	11	2000	164	12

Data obtained from Nike-Herc
 Radar tracked pilot-balloon
 observation.

Data obtained from RAPTS T-9
 Radar tracked pilot-balloon
 observation.

Copy available to DTIC does not
 permit fully legible reproduction
 6

TABLE 7

AIMING AND T-TIME COMPUTER MET MESSAGES

22 April 1982

WSD 1200 MST

METCM1324064

221900122890

00267008 28190890

01274011 27980879

02222015 27740853

03192022 27490812

04238020 27320763

05300017 27410717

06361018 27220673

WSD 1400 MST

METCM1324064

222100122890

00160014 28290890

01217018 28140879

02205015 27890853

03217016 27520812

04243018 27360717

05283012 27390717

06354013 27230673

LC-37 1500 MST

METCM1324063

222200124888

00142007 28390888

01196014 28240877

02229018 28070851

03214014 27710810

04232017 27450762

05233013 27420716

06370012 27270673

STATION ALTITUDE 3989.00 FEET MSL
22 APR. 82 1200HRS MST
ASCENSION NO. 169

SIGNIFICANT LEVEL DATA
1120020169
WHITE SANDS
TABLE 6

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	REL.HUM. PERCENT
890.0	3989.0	7.5	3.9	78.0
886.4	4098.5	6.2	1.7	73.0
850.0	5222.3	3.1	1.2	67.0
775.8	7637.7	-1.2	-1.9	95.0
712.4	9883.0	.7	-2	94.0
700.0	10346.4	-3	-1.0	95.0
652.8	12176.5	-2.8	-4.4	89.0
630.1	13095.2	-5.4	-8.9	76.0
617.0	13636.9	-6.2	-8.9	81.0
590.4	14765.9	-8.8	-14.2	65.0
572.8	15534.6	-10.5	-16.0	64.0
529.2	17518.6	-15.7	-35.1	17.0
500.0	18921.0	-17.7	-28.8	37.0

STATION ALTITUDE 3989.00 FLET MSL
 22 APR. 82 1200 HRS MST
 ASCENSION NO. 169

UPPER AIR DATA
 1120020104
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 7

GEOGRAPHIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	SPD OF WIND METER	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA KNOTS (DEGREES TN)	INDEX OF REFRACTION
3989.0	890.0	7.5	3.9	78.0	1100.9	653.8	130.0	8.0	1.000284
4000.0	889.6	7.4	3.7	77.5	1101.1	653.6	149.3	8.0	1.000284
4500.0	873.2	5.1	1.6	78.0	1090.0	650.8	132.3	10.2	1.000276
5000.0	857.1	3.7	1.3	84.2	1075.2	649.2	121.7	12.9	1.000273
5500.0	841.1	2.6	.8	87.9	1059.5	647.9	114.9	16.0	1.000268
6000.0	825.4	1.7	.2	89.6	1043.1	646.8	110.4	19.2	1.000263
6500.0	809.9	.8	-.4	91.2	1027.0	645.7	113.0	20.5	1.000259
7000.0	794.7	-.1	-1.1	92.9	1011.1	644.7	115.5	21.9	1.000254
7500.0	779.8	-1.0	-1.7	94.5	995.5	643.6	122.4	21.1	1.000249
8000.0	765.2	-1.9	-1.6	94.8	976.5	643.7	130.9	20.4	1.000245
8500.0	750.8	-1.5	-1.2	94.6	956.5	644.2	140.2	19.2	1.000242
9000.0	736.7	-.0	-.8	94.4	936.9	644.8	150.6	18.2	1.000238
9500.0	722.8	-.4	-.4	94.2	917.8	645.3	162.6	17.3	1.000234
10000.0	709.2	-.4	-.4	94.3	900.2	645.4	176.4	16.7	1.000231
10500.0	695.9	-.5	-1.3	94.5	880.5	644.2	187.5	16.9	1.000226
11000.0	682.8	-1.2	-2.2	92.9	872.1	643.4	194.6	17.5	1.000221
11500.0	669.9	-1.9	-3.1	91.2	857.9	642.5	196.9	17.5	1.000216
12000.0	657.2	-2.6	-4.0	89.6	843.9	641.7	194.5	16.8	1.000211
12500.0	644.7	-3.7	-5.9	84.4	831.7	640.2	193.5	15.8	1.000206
13000.0	632.4	-5.1	-8.5	77.3	820.4	638.4	195.6	14.4	1.000200
13500.0	620.3	-6.0	-8.9	79.7	807.3	637.4	199.6	13.5	1.000196
14000.0	608.3	-7.0	-10.6	75.9	795.0	636.1	208.6	13.7	1.000192
14500.0	596.6	-8.2	-12.9	68.8	783.2	634.6	216.0	14.9	1.000187
15000.0	585.0	-9.3	-14.7	64.7	771.4	633.2	220.6	17.0	1.000182
15500.0	573.6	-10.4	-15.9	64.0	759.7	631.8	225.2	18.8	1.000179
16000.0	562.3	-11.7	-19.3	53.0	748.6	630.2	230.6	20.2	1.000174
16500.0	551.2	-13.0	-23.4	41.1	737.7	628.5	239.7	22.1	1.000169
17000.0	540.3	-14.3	-28.3	29.3	726.9	626.9	236.5	24.2	1.000165
17500.0	529.6	-15.7	-34.8	17.4	716.3	625.2	230.6	21.1	1.000161
18000.0	519.0	-16.4	-32.2	23.9	703.9	624.3	230.6	18.8	1.000159
18500.0	508.6	-17.1	-30.1	31.0	691.7	623.5	230.6	16.5	1.000157

STATION ALTITUDE 3989.00 FEET MSL
22 APR. 82 1200 HRS MST
ASCENSION NO. 169

MANDATORY LEVELS
1120020169
WHITE SANDS
TABLE 8

GEODETIC COORDINATES
32°40'43" LAT DEG
106°37'33" LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	AIR DEGREES CENTIGRAVE	TEMPERATURE AIR DEPOINT DEGREES CENTIGRAVE	R.H. HUM. PERCENT	WIND DATA DEGREES (TN) KNOTS
850.0	5218.	3.1	1.2	87.	118.4 14.2
800.0	6824.	.2	-.9	92.	114.7 21.4
750.0	8519.	-.4	-1.2	95.	140.0 19.2
700.0	10336.	-.3	-1.0	95.	185.1 16.8
650.0	12275.	-3.1	-4.9	87.	193.0 16.4
600.0	14337.	-7.8	-12.2	71.	214.2 14.2
550.0	16536.	-13.2	-23.9	40.	234.0 22.3
500.0	18894.	-17.7	-28.8	37.	

STATION ALTITUDE 3989.00 FEET MSL
22 APR. 82 1400 HRS MST
ASCENSION NO. 170

SIGNIFICANT LEVEL DATA

11200±0170

WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT UEG
106.37033 LONG UEG

TABLE 9

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE DEGREES CENTIGRADE	AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
889.8	3989.0	9.0	3.2	67.0
875.2	4437.7	6.9	.6	64.0
850.0	5223.8	4.7	.5	74.0
808.2	6566.2	.9	-1.1	93.0
789.6	7180.3	-5	-1.2	95.0
766.2	10120.7	.1	-6	95.0
700.0	10353.1	-2	-5.7	77.0
698.0	10808.0	-7	-7.1	62.0
661.6	11833.6	-2.0	-7.7	65.0
605.3	14136.2	-7.4	-10.6	78.0
584.2	15042.6	-9.0	-14.7	63.0
543.0	16891.2	-12.9	-16.5	64.0
518.8	18028.0	-16.1	-20.1	71.0
500.0	18939.9	-17.5	-29.8	33.0

STATION ALTITUDE 3989.0 FEET MSL
22 APR. 82 1400 HRS MST
ASCENSION NO. 170

UPPER AIR DATA
112002170
WHITE SANDS
TABLE 10

OUTLTIC COORDINATES
32°40'04.3 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	GND/CURCL METER	SOUND OF WIND DATA	WIND DIRECTION IN DEGREES (180)	REFRACTION INDEX OR
				KNOTS	KNOTS		
3989.0	889.8	9.0	3.2	67.0	1095.0	655.5	14.0
4000.0	889.4	8.9	3.1	66.9	1094.6	655.4	90.0
4500.0	875.2	6.7	.6	64.8	1083.9	652.6	99.1
5000.0	857.1	5.3	.5	71.2	1069.2	651.0	107.9
5500.0	841.2	3.9	.4	77.9	1054.7	649.4	116.0
6000.0	825.6	2.5	.2	85.0	1040.4	647.7	121.0
6500.0	810.2	1.1	-.1	92.1	1026.5	646.1	124.9
7000.0	795.0	-.1	-.9	94.4	1011.5	644.6	127.8
7500.0	780.1	-.4	-.1	95.0	993.7	644.2	130.6
8000.0	765.4	-.3	-1.0	95.0	974.6	644.4	133.7
8500.0	751.0	-.2	-.9	95.0	955.9	644.5	137.0
9000.0	736.9	-.1	-.8	95.0	937.5	644.7	144.3
9500.0	722.0	0.0	-.7	95.0	919.4	644.8	156.0
10000.0	709.4	-.1	-.6	95.0	901.7	645.0	171.0
10500.0	696.1	-.4	-.7	72.2	886.9	644.2	186.3
11000.0	683.0	-.9	-.2	62.6	872.5	643.4	197.0
11500.0	670.1	-.6	-.5	64.9	857.9	642.6	200.4
12000.0	657.4	-.4	-.4	65.9	844.1	641.7	204.3
12500.0	644.6	-.3	-.6	68.8	831.6	640.3	207.2
13000.0	632.5	-.4	-.7	9.1	819.3	638.6	209.0
13500.0	620.4	-.5	-.9	74.4	807.2	637.4	212.0
14000.0	608.5	-.7	-.1	77.2	795.3	636.0	215.9
14500.0	596.7	-.6	-.0	72.0	783.0	634.6	218.1
15000.0	585.2	-.8	-.9	63.7	770.5	633.7	223.4
15500.0	573.7	-.10	-.0	63.2	758.5	632.4	230.0
16000.0	562.5	-.11	-.0	63.5	746.7	631.1	238.0
16500.0	551.5	-.12	-.1	63.8	735.1	629.6	245.9
17000.0	540.6	-.13	-.2	64.7	723.6	628.4	246.9
17500.0	529.9	-.14	-.6	67.7	713.3	626.7	246.0
18000.0	519.4	-.16	-.0	70.8	703.0	625.0	245.3
18500.0	509.0	-.16	-.8	51.3	691.3	623.9	30.7

STATION ALTITUDE 3989.00 FEET MSL
22 APR. 82 1400 HRS MST
ASCENSION NO. 170

MANDATORY LEVELS
112000Z0170
WHITE SANDS
TABLE 11

GEODETIC COORDINATES
32°40'04.3 LAT DEG
106°37'03.3 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE			WIND DATA	
		AIR DEGREES	DEPOINT CENTIGRAVE	HGT. HUM. PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS
650.0	5220.	4.7	.5	74.	111°0	14.6
600.0	6830.	.3	-.6	94.	126°8	17.8
750.0	8527.	-.2	-.9	95.	137°0	16.1
700.0	10343.	-.2	-3.7	77.	181°9	11.7
650.0	12282.	-3.1	-0.2	66.	206°1	15.9
600.0	14344.	-7.8	-11.6	74.	216°5	16.3
550.0	16548.	-12.2	-17.6	64.	244°3	25.5
500.0	18913.	-17.5	-29.8	33.		

STATION ALTITUDE 4051.37 FEET MSL
22 APR. 82 1500 HRS MST
ASCENSION NO. 34

SIGNIFICANT LEVEL DATA
1120180034
LC-37

TABLE 12

GEODETIC COORDINATES
32°40'175 LAT DEG
106°31'232 LONG DEG

PRESSURE GEOMETRIC MILLIBARS MSL FEET	ALTITUDE DEGREES MSL FEET	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
887.8	4051.4	10.4	-15.9
872.8	4515.9	9.0	2.1
850.0	5233.3	6.6	52.0
800.2	6849.5	2.0	55.0
771.0	7033.7	.4	55.0
700.0	10383.1	.1	90.0
670.2	11528.0	-1.0	95.0
617.4	13666.9	-4.9	97.0
600.2	14395.8	-6.5	74.0

STATION ALTITUDE 4051.37 FEET MSL
 22 APR. 02 1500 HRS MST
 ASCENSION NO. 34

UPPER AIR DATA
 1120180034
 LC-37
 TABLE 13

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.31232 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPONT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KILOTS	DIRECTION DEGREES (T) ¹⁴	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4051.4	887.8	10.4	-15.9	14.0	1089.9	656.3	00.0	7.0	1.000251
4500.0	875.3	9.0	1.8	60.4	1074.8	655.4	96.5	8.4	1.000273
5000.0	857.3	7.4	1.0	64.0	1061.6	653.5	108.6	10.6	1.000268
5500.0	841.6	5.8	*.6	69.1	1047.8	651.7	116.4	13.0	1.000265
6000.0	826.0	4.4	.7	76.9	1033.6	650.0	121.5	15.5	1.000262
6500.0	810.7	3.0	.7	84.6	1019.7	648.4	121.4	16.3	1.000259
7000.0	795.7	1.8	.4	90.8	1005.3	646.9	121.3	17.0	1.000256
7500.0	780.8	.9	-0.0	93.3	989.4	645.9	123.0	17.5	1.000251
8000.0	766.2	.4	-3	95.0	972.9	645.9	126.1	18.0	1.000247
8500.0	751.8	.3	-4	95.0	954.8	645.2	128.9	16.5	1.000243
9000.0	737.7	.3	-4	95.0	937.0	645.2	132.4	14.8	1.000239
9500.0	723.8	.2	-5	95.0	919.6	645.1	138.0	12.9	1.000235
10000.0	710.2	.1	-6	95.0	902.5	645.0	149.4	11.2	1.000231
10500.0	696.9	-0	-1.1	92.1	886.1	644.6	164.4	10.1	1.000226
11000.0	683.8	-0.5	-3.5	79.9	871.4	644.1	184.5	10.4	1.000218
11500.0	670.9	-1.0	-6.2	67.7	856.9	643.4	201.4	11.9	1.000211
12000.0	658.2	-1.9	-6.6	70.1	843.4	642.4	208.2	13.3	1.000207
12500.0	645.7	-2.8	-6.9	73.4	830.1	641.3	213.5	14.8	1.000204
13000.0	633.4	-3.7	-7.2	76.6	817.1	640.2	1.000201		
13500.0	621.4	-4.6	-7.5	79.9	804.3	639.1	1.000197		
14000.0	609.5	-5.6	-8.9	77.8	792.1	637.8	1.000193		

STATION ALTITUDE 4051.37 FEET MSL
22 APR. 62 1500 HRS MST
ASCENSION NO. 34

MANDATORY LEVELS
1120100034

LC-37

GEODETIC COORDINATES
32°40'175 LAT DEG
106.31232 LONG DEG

TABLE 14

PRESSURE	GEOPOTENTIAL	TEMPERATURE	HGT. HUM.	WIND DATA
millibars	feet	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)
850.0	5229.	6.6	65	112°0 11.7
800.0	6850.	2.0	90	121.2 16.8
750.0	8555.	.3	95	129°2 16.3
700.0	10373.	.1	95	159°5 10.2
650.0	12316.	-2.5	-6.8	211.7 14.2

